IN THE CLAIMS

The claims have not been amended and are detailed in the following detailed claim listing.

- (Previously Presented) A method of controlling an RF power amplifier comprising: 1. providing a bias signal to the RF power amplifier for normal operation; detecting the magnitude of an input signal to be amplified by the RF power amplifier; and changing the bias signal as a function of the input signal to reduce power consumption of the RF power amplifier wherein the bias signal is removed when the magnitude of the input signal reaches a predetermined threshold.
- 2. (Cancelled)
- 3. (Withdrawn) The method of claim 2 wherein the input signal is an RF signal.
- (Withdrawn) The method of claim 2 wherein the threshold is a voltage threshold. 4.
- 5. (Original) The method of claim 1 wherein the input signal is a digital baseband data.
- (Original) The method of claim 5 and further including buffering the input signal. 6.
- 7. (Original) The method of claim 6 wherein the bias signal is changed prior to the corresponding input signal being provided to the RF power amplifier.
- 8. (Withdrawn) The method of claim 1 and further comprising low pass filtering the bias signal prior to providing it to the RF power amplifier.
- 9. (Withdrawn) A RF power amplifier comprising:
 - a bias voltage circuit that supplies a bias voltage;
 - a comparator circuit that compares an RF input signal to a threshold;

a power transistor that receives the bias voltage and amplifies the RF input signal; and

a switch coupled to the comparator circuit for modifying the bias voltage to switch the power transistor on and off responsive to the threshold.

- 10. (Withdrawn) The RF power amplifier of claim 9 and further comprising a low pass filter coupled to the power transistor that filters the switched bias signal.
- (Withdrawn) The RF power amplifier of claim 9 wherein the switch comprises a 11. transistor.
- (Withdrawn) The RF power amplifier of claim 11 wherein the transistor comprises a 12. source, drain and gate, and wherein the gate of the transistor is coupled to the comparator.
- (Withdrawn) The RF power amplifier of claim 9 and further comprising: 13.
 - a diode detector circuit coupled to the comparator circuit; and
- a RF coupler that receives the input signal and provides it to the power transistor and to the diode detector circuit.
- (Withdrawn) A RF power amplifier comprising: 14.
 - a bias voltage circuit that supplies a bias voltage;
 - a comparator circuit that compares an RF input signal to a threshold;
- a diode detector circuit coupled to the comparator circuit;
- a power transistor that receives the bias voltage and amplifies the RF input signal;
- a switch coupled to the comparator circuit for modifying the bias voltage to switch the power transistor on and off responsive to the threshold;
 - a low pass filter coupled to the power transistor that filters the switched bias signal; and
- a RF coupler that receives the input signal and provides it to the power transistor and to the diode detector circuit.

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- 15. (Previously Presented) A RF power amplifier system comprising:
 - a FIFO buffer for buffering baseband digital data;
- a FIFO_buffer for buffering a digital representation of the power of the baseband digital data;
- a comparator for providing a bias signal to an RF power amplifier as a function of the digital representation of the power of the baseband digital data; and
- a converter for converting the baseband digital data to RF, and providing it to the RF power amplifier.
- 16. (Previously Presented) The RF power amplifier system of claim 15 wherein [the buffers are] FIFO buffers are_of equal size.
- 17. (Original) The RF power amplifier system of claim 15 wherein the digital representation of the power is compared to a threshold power.
- 18. (Original) The RF power amplifier system of claim 17 wherein the bias signal turns the RF power amplifier on when the digital represent of the power is greater than the threshold.
- 19. (Original) The RF power amplifier system of claim 17 wherein the bias signal turns the RF power amplifier off when M consecutive power samples are all less than a threshold power.
- 20. (Previously Presented) A method of controlling a RF power amplifier system, the method comprising:

buffering baseband digital data;

buffering a digital representation of the power of the baseband digital data;

providing a bias signal to an RF power amplifier as a function of the digital

representation of the power of the baseband digital data such that the bias signal is in an on or off state; and

converting the baseband digital data to RF, and providing it to the RF power amplifier.

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21. (Previously Presented) A method of controlling an RF power amplifier comprising:

providing a bias signal to the RF power amplifier for normal operation;

detecting the magnitude of an input signal to be amplified by the RF power amplifier; and

maintaining the bias signal relatively static when the magnitude of the input signal is

above a predetermined threshold, and removing the bias signal when the magnitude of the input

signal falls below the predetermine threshold.